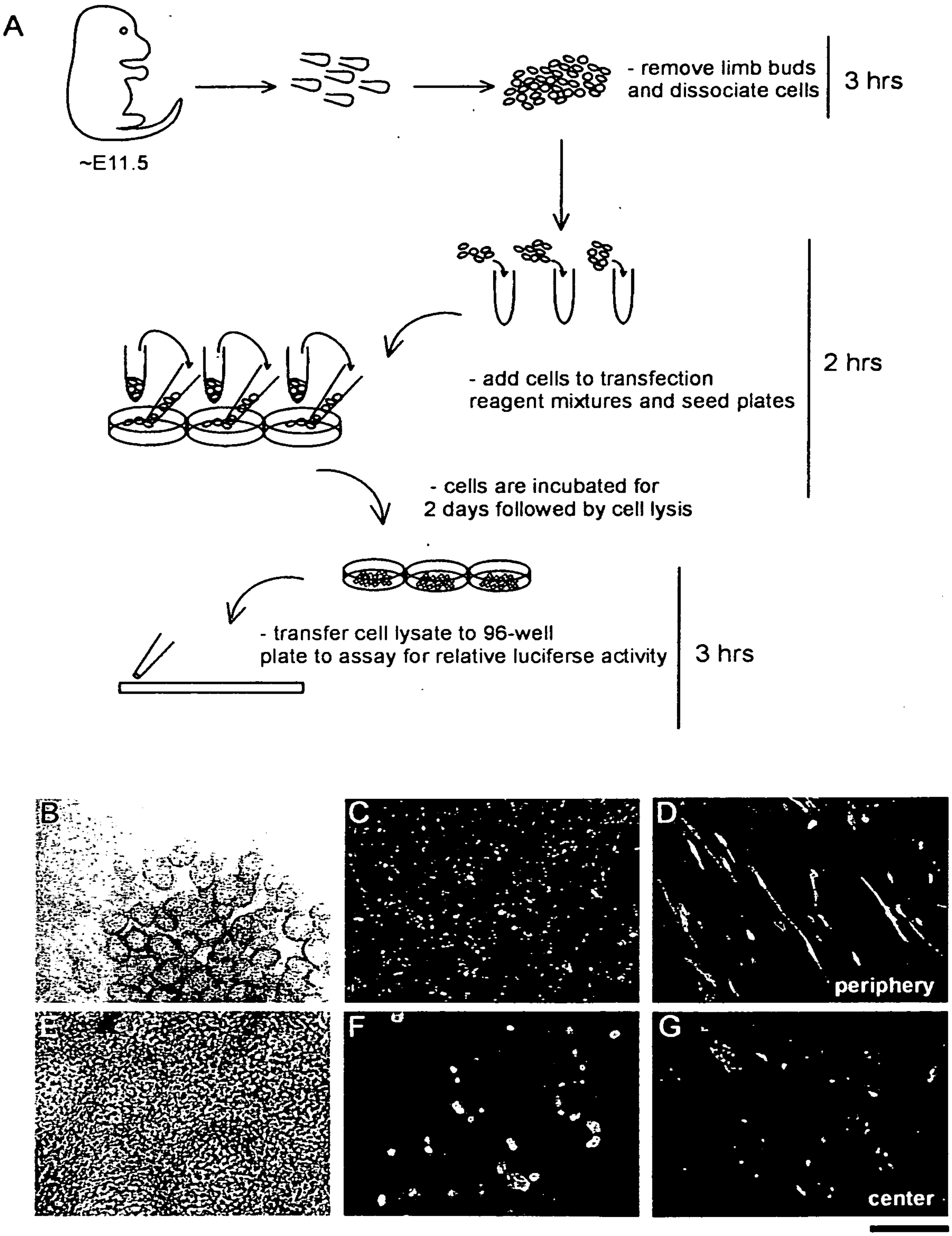
FIGURE 1


A
~E11.5
- remove limb buds
and dissociate cells
3 hrs
- add cells to transfection
reagent mixtures and seed plates
2 hrs
- cells are incubated for
2 days followed by cell lysis
- transfer cell lysate to 96-well
plate to assay for relative luciferse activity
3 hrs
B
C
D
periphery
E
F
G
center

09957456.092101

09957456 . 092101

FIGURE 2

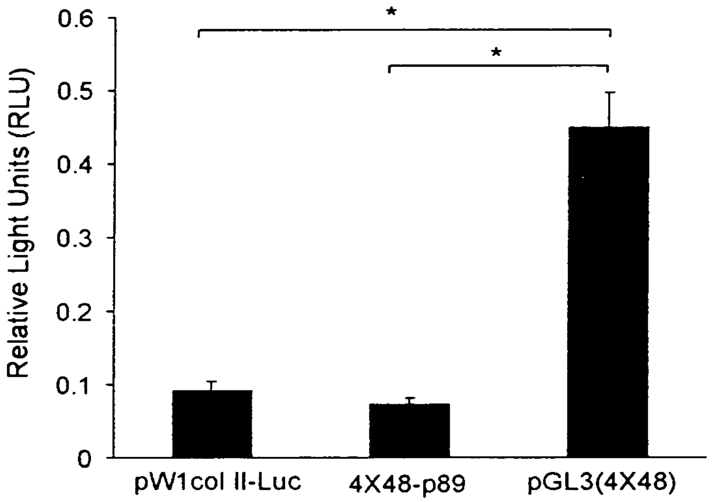


FIGURE 3

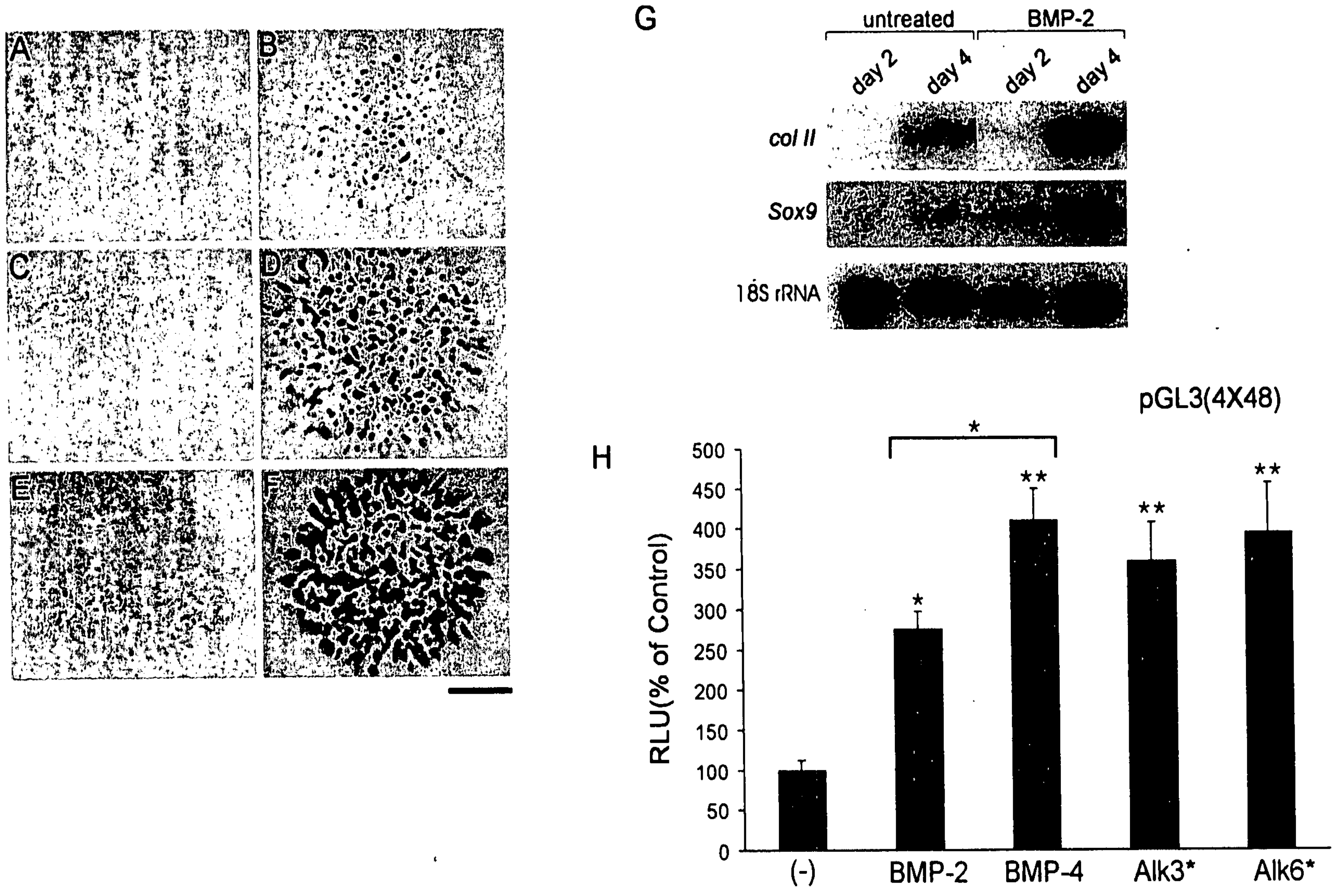
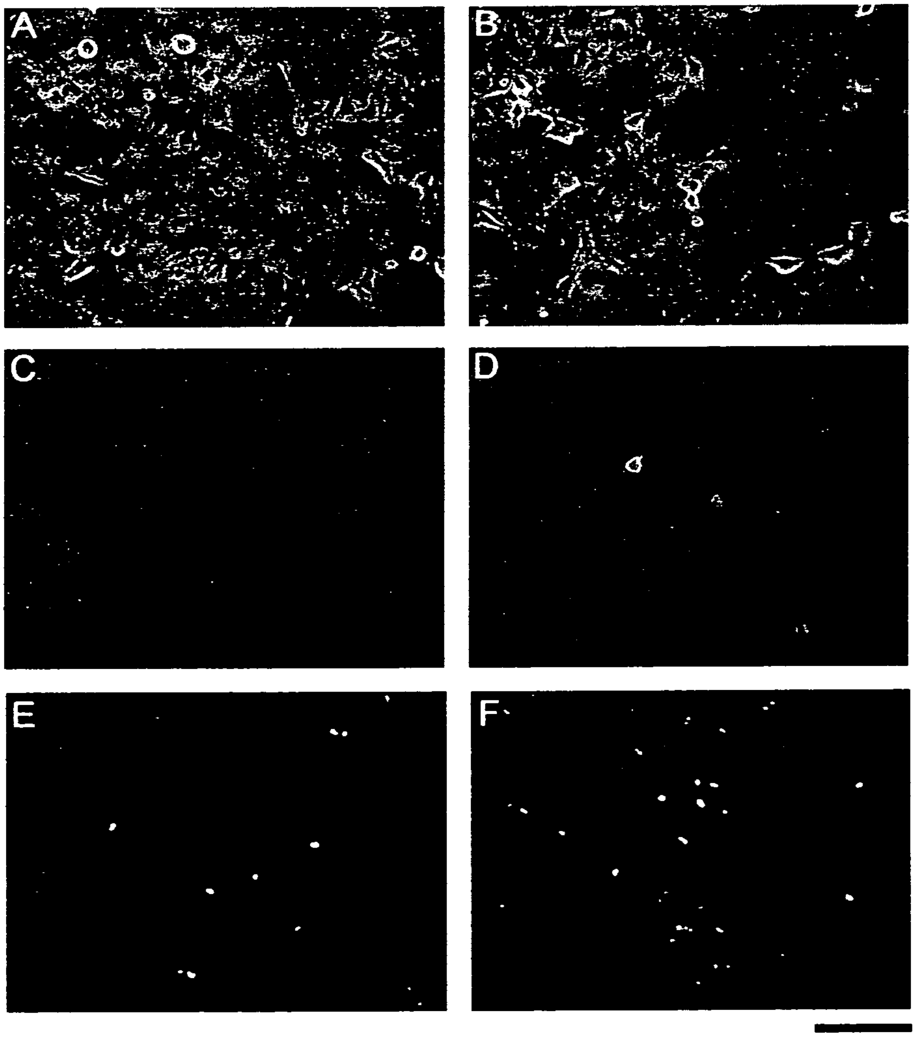
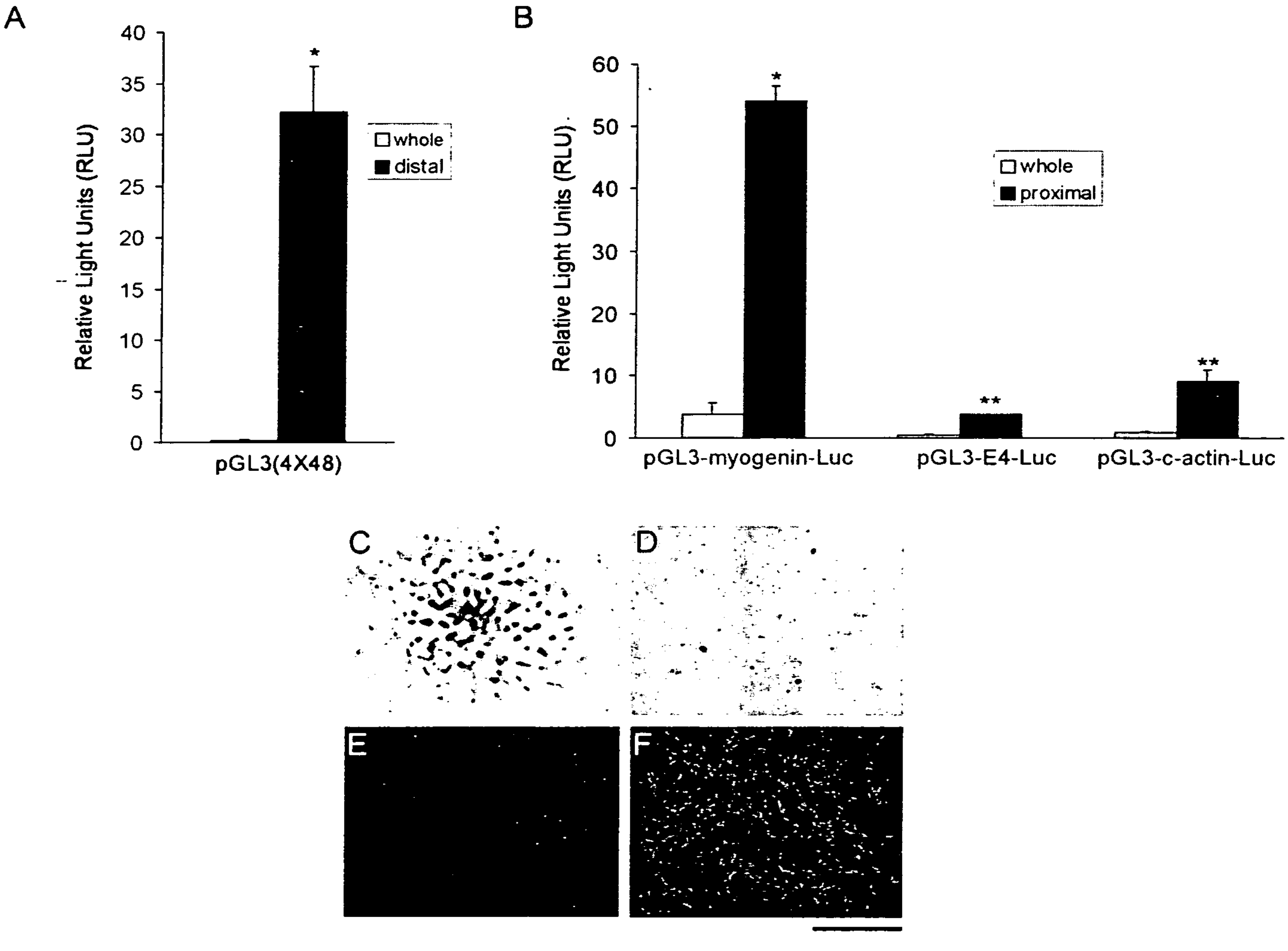

A
B
C
D
E
F
G
untreated
BMP-2
day 2
day 4
day 2
day 4
col II
Sox9
18S rRNA
H
pGL3(4X48)
RLU(% of Control)
0
50
100
150
200
250
300
350
400
450
500
*
**
**
**
(-)
BMP-2
BMP-4
Alk3*
Alk6*

FIGURE 4



09957456 .092101

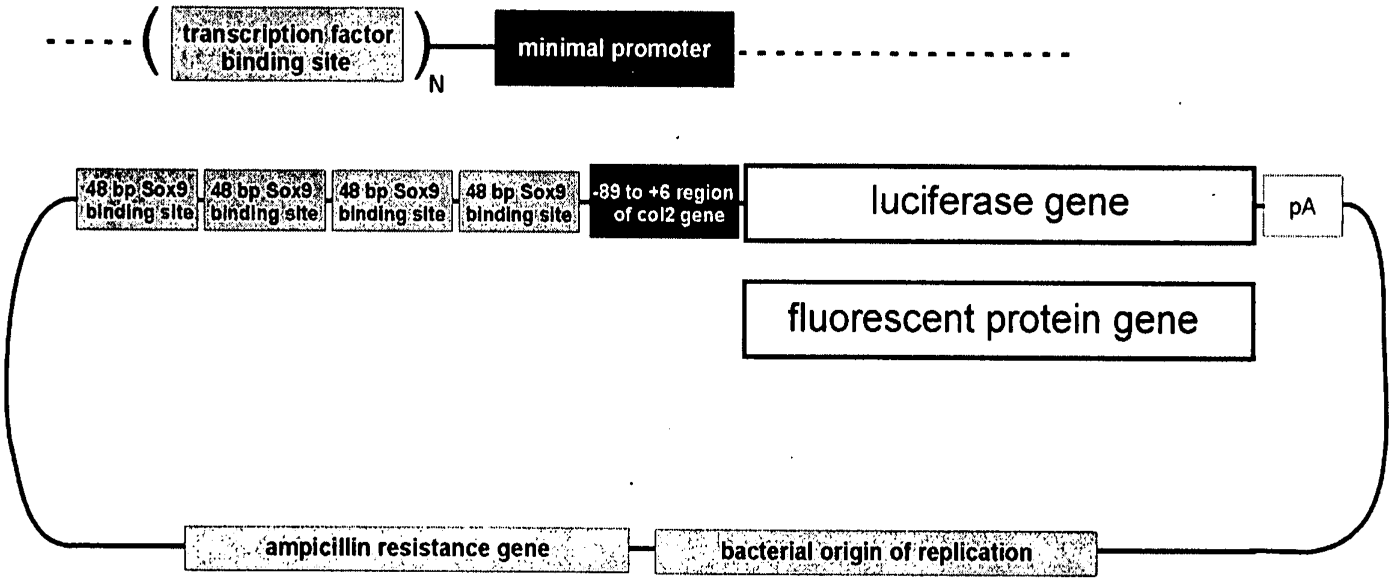
FIGURE 5



09545960 . 012601

09957456.092101

FIGURE 6


transcription factor binding site
N
minimal promoter
48 bp Sox9 binding site
48 bp Sox9 binding site
48 bp Sox9 binding site
48 bp Sox9 binding site
-89 to +6 region of col2 gene
luciferase gene
pA
fluorescent protein gene
ampicillin resistance gene
bacterial origin of replication